Objective 9.1 Reduce deaths caused by unintentional injuries to no more than 29.3 per 100,000 people.

	1987 Baseline	1988	1989	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	1995	<u>1996</u>	<u>1997</u>	2000 Target
Unintentional Injury Deaths (age-adjusted per 100,000) ICD-9 Codes: E800-E949	34.7	35.0	33.9	32.5	31.0	29.4	30.3	30.3	30.5	30.4	30.1	29.3
^Data are provisional												
Special Population Targets		· · · · · · · · · · · · · · · · · · ·										
91.a American Indians/Alaska Natives	66.0	64.4	61.8	59.0	58.3	57.3	58.1	58.3	56.7	57.6	58.5	53.0
9.1b Black Males	68.0	70.4	68.8	62.4	61.0	56.7	59.8	58.5	57.6	55.7	54.2	51.9
9.1c White Males	49.8	50.0	47.8	46.4	43.9	41.9	42.7	42.7	43.0	42.4	42.0	42.9
9.1d Mexican American Males				53.3 (Baseline)	47.2	46.5	48.6	46.1	44.6	45.4		43.0

Barriers:

Perception that unintentional injuries are unavoidable and occur as a matter of happenstance or as an act of fate.

Unintentional injuries are associated with low socio-economic status, sub-standard living conditions, minority origin, and use of alcohol.

Limited number of states have a core unintentional injury prevention program at the state level.

Indian reservations have a disproportionate rate of unintentional injuries, especially motor vehicle and pedestrian fatalities many of which are alcohol-related.

Costs of choosing risky behaviors are not emphasized

Medical care for persons who suffer an injury in rural areas is severely hampered by lengthy EMS response time due to rural road conditions and distance to nearest trauma care center.

Strategies:

Raise awareness that injuries are not "accidents", and that they can be prevented by behavioral and environmental changes.

Support the development and implementation of integrated prevention programs that target populations most affected by specific types of injuries..

Coordinate efforts of Federal agencies, states, national organizations, and grassroot affiliates in the development and implementation of strategies to prevent unintentional injuries.

Emphasize the substantial risk posed by alcohol for all unintentional injuries.

Support surveillance efforts to characterize those at risk for unintentional injuries and to develop and evaluate prevention programs.

Develop methodologic strategies to calculate the cost of unintentional injuries.

Objective 9.2

100,000 people. Reduce nonfatal unintentional injuries so that hospitalizations for this condition are no more than 754 per

	1989 Baseline	<u>1990</u>	<u>1991</u>	1992	1992 1993	<u>1994</u> <u>1995</u>	<u>1995</u>	1996	1997	2000 Target
Nonfatal unintentional injuries (per 100,000)* ICD-9 codes: 800-959	832	087	764	714	699	654	635	612	582	754
Special Population Target						3				
9.2a Black Males		•	1007	969	893	847	911	730	637	856
*Data include unintentional, intentional, and unknown intentionality. Total Population			(Daseille)							

Barriers:

Social norms are often not conducive to preventive actions

providers, or the prevention community Poor diffusion of intervention strategies to the public, health care

by stakeholders at the national, state, and local levels Lack of a coordinated and synergistic response to various injury issues

Theory-driven, proven intervention programs have not been fully researched for some major injury causes

prevalent or economically burdensome. Media coverage for unintentional injury issues is not as frequent or dramatic as coverage for some other health problems that are not as

intentionality Current data tracking system includes all injuries regardless of

priority compared to other health issues that occur with less frequency Resources for unintentional injury programs are often given low and create medical expense

Strategies:

Educate the media about the preventability of unintentional injuries and the critical need to help the public understand that "injuries are not

professional associations, etc. to implement collaborative strategies effort among governmental agencies, private sector organizations, Review the National Plan for Injury Control and develop a coordinated

because of their own alcohol use or abuse assessment, counseling and treatment referral for persons injured Encourage emergency departments to conduct routine blood alcohol

injuries in their strategic plans for prevention state and national levels about the critical need to include unintentional Educate policy-makers, public health professionals, and stakeholders at

change social norms community-based programs and awareness campaigns designed to reducing the incidence of nontatal unintentional injuries, such as Support the implementation of known strategies that contribute to

recommendations for a national injury surveillance system Develop multi-disciplinary partnerships that work toward implementing and theory-driven, proven interventions for unintentional injuries.

Objective 9.3 Reduce deaths caused by motor vehicle crashes to no more than 1.5 per 100 million vehicle miles traveled and 14.2 per 100,000 people.

Wittel Cook Books	1987	1988	1989	1990	1991	1992	1993	<u>1994</u>	<u> 5661</u>	<u>1996</u>	1997	2000 Target
MOCOL A CHICLE CLUSH PERKINS								1	17	17	1 6	1.5
Per 100 million vehicle miles traveled (VMT)	2.4	2.3	2.2	2.1	1.9	1.7	1.7	1.7	1.7	1.7	1.6	1.5
Per 100,000 people	19.2	19.3	18.5	17.9	16.5	15.4	15.6	15.6	15.9	15.9	15.7	14.2
Special Population Targets (Per 100,000)												
9.3a Children aged 14 and younger	6.3	6.3	5.9	5.3	5.1	4.8	4.9	5.1	4.9	4.8	4.6	4.4
9.3b Youth aged 15-24	36.3	37.1	33.9	33.4	31,4	28.0	28.5	28.9	29.9	28.9	27.4	26.8
9 3c People aged 70 and older	22.9	24.3	23.9	22.9	23.4	21.9	22.9	23.3	23.3	23.3	23.9	20.0
9.3d American Indians/Alaskan Natives	37.7	36.2	34.4	33.2	33.4	32.0	32.3	31.4	33.1	34.0	32.3	32.0
0 3a Mexican Americans				20.9	18.9	17.5	18.1	18.7	17.7	18.0	I	18.0
1.38 Mrcandii Ciinaradii					(Baseline)				·			
Type-Specific Targets												
9.3e Motorcyclists (100,000 million VMT)	42.5	36.5	30.3	33.8	30.6	25.1	24.0	22.7	22.7	21.8	20.9	25.6
(Per 100,000 population)	1.7	1.5	1.3	1.3	1.1	0.9	0.9	0.9	0.9	0.8	0.8	0.9
9.3f Pedestrians (per 100,000 population)	2.8	2.7	2.6	2.6	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0

3arriers: Objective 9.3 vehicle crash deaths, and the repeal of state speed limit laws. Alcohol is a major contributing factor in nearly 40% of all motor Lack of access to child safety seats and booster seats among persons in Reduce deaths caused by motor vehicle crashes to no more than 1.5 per 100 million vehicle miles traveled and 14.2 per 100,000 people. Strategies: Promote passage of primary enforcement safety belt and universal helmet laws in states and Indian Reservations. Improve driver screening and training programs, especially for new

Promote adoption of graduated licensing programs in all states.

Evaluate the effectiveness of programs that promote the use of safety belts, child restraints, and airbags.

Promulgate regulations to make vehicles safer.

Establish data linkages between police and hospital records and other non-fatal injury records to enhance early detection of shifts in trends, and conduct better evaluate prevention strategies and economic costs

and anti-lock brakes.

higher risk of serious injury or death if involved in a crash

Larger proportions of Americans are driving at older ages, and are at

Lack of sufficient detail in data such as specific causes of crash

low social-economic status and minority groups.

drivers and seniors.

Older automobiles do not have newer safety features such as air bags

Employ media more effectively to inform the public of risks associated with drinking and driving and other risky behaviors.

rate to enhance existing surveillance methods.

Encourage blood alcohol content (BAC) testing in states with low test-

associated with motor vehicle injuries.

Objective 9.4:Reduce deaths from falls and fall-related injuries to no more than 2.3 per 100,000 people.

									•	:	•	3
	1987 Baseline	<u>1988</u> <u>1989</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	1993 1994 1995 1996	1996	1997	2000 Target
Fall-Related Deaths (per 100,000) ICD-9 codes: E880-888 (age-adjusted)	2.7	2.7	2.6	2.7	2.6	2.5	2.5	2.5	2.6	2.7	2.7	2.3
Special Population Targets		_	·									
9.4a People aged 65-84	18.1	18.0	18.0	17.8	18.0	17.6	17.8	18.3	18.5	19.9	20.7	14.4
9.4b People aged 85 and older	133.0	144.1 141.6	141.6	143.1	147.5	147.3	149.5	147.0	152.0	159.6	160.3	105.0
9.4c Black males aged 30-69	8.1	7.6	7.8	6.8	6.2	5.3	5.5	5.4	4.8	5.3		5.6
9.4d American Indians/Alaskan Natives (age-adjusted)				3.2 (Baseline)	3.1	3.1	4.3	3.2	3.8	2.9	4.0	2.8

Barriers:

which can be administered during a doctors visit. Lack of simple, quantitative measures predictive of falls in older adults

techniques and/or how to minimize the impact of a fall Few educational programs that teach older persons fall prevention

Limited understanding of the costs of falls and fall-related injuries.

Effective interventions such as, polypharmacy, osteoporosis and ageremain to be fully implemented. associated gait/balance problems are either of limited availability or

Hospital and emergency department data are not routinely E-coded, recorded in medical records. thus circumstances surrounding the fall injury is not consistently

cause of death. Falls are not routinely recorded on death certificates as a contributing

Strategies:

Develop and implement interventions to reduce falls in older persons, accommodate daily activities of elderly residents. including the design and remodeling of homes and buildings to

external cause of injury codes on injury-related hospital records. Improve surveillance mechanisms by encouraging hospitals to record

availability of safety devices that reduce the risk and severity from an unintentional injury. Promote community education for older persons to learn about the

prevention, smoking cessation, proper diet), and behavioral strategies Promote healthier lifestyles in early adulthood (e.g., chronic disease that lead to healthier older age.

prevention of osteoporosis. Develop interventions that raise the public's awareness and lead to the

Promote helmet use during recreational activities with significant head injury rates.

epidemiologic research and translate findings into a national Develop guidelines for playground equipment surfaces; conduct

Educate older individuals about potential alcohol/medication interactions and about changes in the effects of alcohol as one ages. implementation plan for playground injuries.

Objective 9.5: Reduce drowning deaths to no more than 1.3 per 100,000 people

	1987 1988 1989 Baseline	1988	1989	<u>1990</u>	<u>1991</u>	1992	1993	1994	1995	1995 1996 1997	104000000000000000000000000000000000000	2000 Target
Drowning Deaths (per 100,000) ICD-9 Codes: E830, 832, E910 (age-adjusted) Total population	2.1	2.0	1.9	1.9	1.9	1.6	1.7	1.5	1.7	1.5	1.5	1.3
Special Population Targets		, -										•
9.5a Children aged 4 and younger	4.3	3.9	3.7	3.4	3.6	3.2	3.2	2.8	3.7	2.8	2.7	2.3
9.5b Males aged 15-34	4.5	4.2	3.9	4.0	4.1	3,4	3.6	3.1	4.6	3.0	i	2.5
9.5c Black Males (age-adjusted)	6.6	5.6	5.4	5.0	5.8	4.1	4.3	4.0	4.1	3.9	3.5	3.6
9.5d American Indians/Alaska Natives (age-adjusted)				4.3 (Baseline)	ω .∞	4.0	4.3	4.3	3.5	3.3	3.8	2.0

Barriers:

Proven interventions are often perceived as nice, but not neccessary (e.g. water safety training, personal flotation devices (PFDs) when bearing)

Interventions create a significant economic burden to pool owners including costs 4-sided of fencing and life guards.

Municipal regulations are often not enforced due to limited personnel

Currently only three (3) states have laws requiring 4-sided isolation fencing.

Minority populations are less likely to have water safety skills.

Toward lifting requirements for lifeguards at hotels, beaches, and lakes, "Swim at your own risk" policies are becoming more prevalent as many municipalities move.

Alcohol is a risk factor in drowning deaths

Strategies:

Promote revision of building codes to require 4-sided isolation swimming pool fencing.

Educate the public about hazards of open bodies of water and about the dangers associated with drinking alcohol while engaged in aquatic activities; promote swimming and water safety classes for children and teenagers: promote CPR training for adolescents and parents.

Develop, implement, and evaluate interventions targeted for high risk groups.

Encourage enforcement of laws prohibiting the operation of boats while under the influence of drugs or alcohol.

Promote licensure and standard training for boat operators

Support research to evaluate risk factors and intervention strategies for alcohol-related drowning and near drowning.

Objective 9.6: Reduce residential fire deaths to no more than 1.2 per 100,000 people.

	1987 Bascline	1988	1989	1990	1991	1992	1993	<u>1994</u>	<u> 1995</u>	1996	1997	2000 Target
Residential Fire Deaths (per 100,000) E890-E899. Total population (age-adjusted)	1.7	1.8	1.7	1.5	1.5	1.4	1.3	1.4	1.2	1.2	1.1 -	1.2
Special Population Targets												· · · ·
9.6a Children aged 4 and younger	4.5	4.2	3.9	3.5	3.8	3.4	3.6	3.5	2.6	2.4	2.1	3.3
9.6b People aged 65 and older	4.9	4.9	4.6	4.1	3.9	3.7	3.7	3.5	3.6	3,8	3.5	33
9.6c Black Males (age-adjusted)	6.4	7.1	6.0	5.2	5.1	4.9	4.6	4.5	4.2	3.9	3.4	4.3
9.6d Black Females (age-adjusted)	3.3	3,4	3.3	2.7	2.6	2.3	2.6	2.4	2.4	2.1	2.0	2.6
9.6f American Indians/Alaska Natives				2.1 (Baseline)	2.3	2.5	2.5	3.1	3.1	1.9	2.0	1.4
9.6g Puerto Ricans				1.8 (Baseline)	1.4	1.4	1.0	1.1	1.3	1.6	ı	2.0
Type Specific Target			_						-			
9.6e Residential fire deaths caused by smoking	26%	20%	17%	17%	16%	18%	16%	16%	17%	17%		8%

Objective 9.6: Reduce residential fire deaths to no more than 1.2 per 100,000 people.

Barriers:

Smoking, the leading cause of residential fire-related deaths, is perceived as a harmless past-time.

Smoke alarms require monthly maintenance and replacement after ten years of use.

Residents often disconnect smoke alarms due to the "nuisance" factor

Sprinkler systems are highly effective in extenguishing a fire, however they are costly to retrofit existing homes and apartments.

American Indians/Alaska Natives continue to use woodburning stoves for cooking.

Strategies:

Promote revision of state and local ordinances and building codes to require smoke alarms in new and existing housing.

Encourage requirement for cigarettes sold in the U.S. to have low potential for igniting upholstered furniture. This requirement would include modifications of cigarettes, as well as continued endorsement of standards for furniture manufacture.

Encourage public education that includes positioning of smoke alarms in residences, "stop, drop, and roll" when clothing ignites, the role of alcohol use in residential fires, and the dangers of playing with matches and lighters. Promote development and practice of exit drills in the home

Support research activities to define risk factors associated with survival of residential fires, especially the role of alcohol..

Expand successful intervention programs for juvenile fire-setters, and programs that discourage juvenile curiosity fire-setting.

Develop consensus among fire experts, regulators, and legislators about methods to encourage installation of sprinkler systems in residences and changes in building codes.

Conduct a study that includes focus groups to determine the reasons residents disarm smoke alarms, and do not replace outdated batteries.

Evaluate the efficiacy of home visitation for smoke alarm installation and maintenance, compared to resident's personal responsibility; and determine if firefighters are the most optimal group to conduct home visits to install and maintain smoke alarms.

Develop and implement fire prevention and education programs that target the elderly.

Encourage and support fire departments and emergency response teams to be proactive in preventing residential fires.

Hip Fractures (per People aged 65 and c Special Population '9.7aWhite women ag linad prev Lack intak Simp not a

more than 607 per 100,000 people. Reduce hip fractures among people aged 65 and older so that hospitalizations for this condition are no

	1988 Baseline	1989	<u>1989</u> <u>1990</u> <u>1991</u>	<u>1991</u>	1992	<u>1993</u>	<u>1993</u> <u>1994</u> <u>1995</u>	<u>1995</u>	1996	1997	2000 Target
Hip Fractures (per 100,000) ICD-9 code: E820 People aged 65 and older	714	734	776	814	757	841	815	818	934	879	607
Special Population Target											
9.7aWhite women aged 85 and older	2,721 3,269 3,075	3,269		3,091	2,368	3,035	2,815	2,604	2,368 3,035 2,815 2,604 2,804 2,879	2,879	2,177
							4				

More than two-thirds of older adults do not participate in any form of regular physical activity which research finds would increase their

agility and balance.

Inadequate dissemination of currently available information on prevention of falls and fractures.

Lack of unified public health strategy to encourage optimal calcium

Simple measurement tools to evaluate risk for falls and fractures are not available.

intake in the American population

Strategies:

Develop, implement, and evaluate behavioral and environmental interventions to reduce falls among seniors.

Conduct further studies of hip pads and impact absorbing flooring to develop an acceptable and cost effective product.

Develop interventions targeted at modifiable risk factors for falls/fractures that have been identified by epidemiological studies

Determine effectiveness and cost benefit of HRT and/or non-hormonal treatments (e.g. bisphosphonates) in post-menopausal women for the prevention of hip fractures.

Encourage design and construction of new buildings to accommodate the limitations and unique capabilities of seniors.

Encourage inclusion of smoking cessation programs with other chronic disease prevention programs that target older women.

Work with advocacy groups to identify needs of elderly persons; conduct multi-center intervention trials; implement cohort studies similar to the Framingham Study.

Encourage alcohol education programs for older individuals, particularly in terms of potential alcohol/medication interactions and changes in alcohol's effects as one ages.

Data Source: Barriers: dermal, ocular, or parenteral). resources to teach and promote poison prevention poisonous solutions are stored. for persons exposed to a poison by any route (ingestion, inhalation, Lack of access to a poison control center may result in adverse affects Health care professionals may have insufficient time and/or too few Storage of caustic agents in unlabeled or improper types of containers. Supervision of infants and toddlers is often inadequate and/or back on public education. poisonous and non-poisonous. Failure to properly store poisonous solutions failure to use proper barrier methods that prevent access to areas where Lack of sufficient funding has caused poison control centers to cut Lack of understanding by parents and caretakers about which items are

	Strategies:
U.S. residents have immediate access via a toll-free telephone number.	Support continued funding for poison control centers, assuring that all

9.8a Among Children aged 4 and younger.

664

604

681

636

705

638

626

597

518

499

470

460

520

Special Population Target

Total Population

Nonfatal Poisoning (per 100,000)

Baseline 1986

1987

1988

1989

1990

1991

<u>1992</u>

<u>1993</u>

1994

1995

1996

1997

Target 2000

104

87

3

73

8

2

61

52

#3

43

4

41

88

Objective 9.8 Reduce nonfatal poisoning to no more than 88 emergency department treatments per 100,000 people.

Educate consumers about proper storage of household products and

of possible poisoning. center phone number and the need to call a center immediately in case Conduct public service campaigns to increase awareness of the poison

Promote adult-friendly child-resistant packaging